Refrigerator
user manual

English

imagine the possibilities

Thank you for purchasing this Samsung product.

SAMSUNG

Free Standing Appliance

SAFETY INFORMATION

- Before operating the appliance, please read this manual thoroughly and retain it at a safe place near the appliance for your future reference.
- Use this appliance only for its intended purpose as described in this instruction manual.
  This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Warnings and Important Safety Instructions in this manual do not cover all possible conditions and situations that may occur.
  It is your responsibility to use common sense, caution, and care when installing, maintaining, and operating your appliance.
- Because these following operating instructions cover various models, the characteristics of your refrigerator may differ slightly from those described in this manual and not all warning signs may be applicable.
  If you have any questions or concerns, contact your nearest service center or find help and information online at www.samsung.com.

Important safety symbols and precautions :

WARNING	Hazards or unsafe practices that may result in **severe personal injury or death**.
CAUTION	Hazards or unsafe practices that may result in **minor personal injury or property damage**.

	Do NOT attempt.
	Do NOT disassemble.
	Do NOT touch.
	Follow directions carefully.
	Unplug the power plug from the wall socket.
	Make sure the machine is grounded to prevent electric shock.
	Call the contact center for help.
	Note.

These warning signs are here to prevent injury to you and others.
Please follow them carefully.
After reading this section, keep it in a safe place for future reference.

CE Notice

This product has been determined to be in compliance with the Low Voltage Directive (2006/95/EC), the Electromagnetic Compatibility Directive (2004/108/EC), RoHS Directive (2011/65/EU), Commission Delegated Regulation (EU) No 1060/2010 and the Eco-Design Directive (2009/125/EC) implemented by Regulation (EC) No 643/2009 of the European Union.
(For products sold in European Countries only)

WARNING SEVERE WARNING SIGNS FOR TRANSPORTATION AND SITE

- When transporting and installing the appliance, care should be taken to ensure that no parts of the refrigerating circuit are damaged.
  - Refrigerant squirting out of the pipes could ignite or cause an eye injury.
    If a leak is detected, avoid any naked flames or potential sources of ignition and air the room in which the appliance is standing for several minutes.
- In order to avoid the creation of a flammable gas-air mixture if a leak in the refrigerating circuit occurs, the size of the room in which the appliance may be sited depends on the amount of refrigerant used.
- Never start up an appliance showing any signs of damage. If in doubt, consult your dealer.

WARNING SEVERE WARNING SIGNS FOR INSTALLATION

• Do not install the refrigerator in a damp place or place where it may come in contact with water.
- Deteriorated insulation of electrical parts may cause an electric shock or fire.
• Do not place this refrigerator in direct sunlight or expose to the heat from stoves, room heaters or other appliance.
• Do not install this appliance near a heater, inflammable material.
• Do not install this appliance in a humid, oily or dusty location, in a location exposed to direct sunlight and water (rain drops).
• Do not install this appliance in a location where gas may leak.
- This may result in electric shock or fire.
• Do not plug several appliances into the same multiple power board.
The refrigerator should always be plugged into its own individual electrical which has a voltage rating that matched the rating plate.
- This provides the best performance and also prevents overloading house wiring circuits, which could cause a fire hazard from overheated wires.
• Plug the power plug into the wall socket firmly. Do not use a damaged power plug, damaged power cord or loose wall socket.
- This may result in electric shock or fire.
• Do not pull or excessively bend the power cord.
• Do not twist or tie the power cord.
- When moving the refrigerator, be careful not to roll over or damage the power cord
- This may result in electric shock or fire.
• This appliance should be positioned in such a way that it is accessible to the power plug.
- Failing to do so may result in electric shock or fire due to electric leakage.
• Never unplug your refrigerator by pulling on the power cord.
Always grip plug firmly and pull straight out from the outlet.
- Damage to the cord may cause a short-circuit, fire and /or electric shock.
• The installation or any service of this appliance is recommended by a qualified technician or service company.
- Failing to do so may result in electric shock, fire, an explosion, problems with the product, or injury.

• This refrigerator must be properly installed and located in accordance with the manual before it is used.
• Insert the power plug with it's cord down.
- Otherwise the electric wire can be down and it can cause fire and electric shock.
• Make sure that the power plug is not squashed or damaged by the back of the refrigerator.
• When moving the refrigerator, be careful not to roll over or damage the power cord.
- This constitutes a fire hazard.
• The appliance must be positioned so that the plug is accessible after installation.

• The refrigerator must be grounded.
- You must ground the refrigerator to prevent any power leakages or electric shocks caused by current leakage from the refrigerator.
• Never use gas pipes, telephone lines or other potential lightening rods as ground.
- Improper use of the ground plug can result in electric shock.

• If the power cord is damaged, have it replaced immediately by the manufacturer or its service agent.

CAUTION CAUTION SIGNS FOR INSTALLATION

• Allow sufficient space to install the refrigerator on a flat surface.
- If your refrigerator is not level, the internal cooling system may not work correctly.
• Keep ventilation opening in the appliance enclosure or mounting structure clear of obstruction.
• Allow the appliance to stand for 2 hours after installation.
• Install your appliance on a level and hard floor that can support its weight.
- Failing to do so may result in abnormal vibrations, noise, or problems with the product.

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WARNING SEVERE WARNING SIGNS FOR USING

• Do not touch the power plug with wet hands.
- This may result in electric shock.
• Do not stand on top of the appliance or place objects on the appliance.
- This may result in electric shock, fire, problems with the product, or injury.
• Do not put a container filled with water on the appliance.
- If spilled, there is a risk of fire or electric shock.
• Keep the packing materials out of reach of children.
- There is a risk of death from suffocation if children put them on their head.

WARNING SEVERE WARNING SIGNS FOR USING (CONT'D)

• Do not put items filled with water on the refrigerator.
- If spilled, there is a risk of fire or electric shock.
• Children should be supervised to ensure that they do not play with the appliance.
• Do not let children hang on the door. If not, a serious injury may occur.
• Do not overfill the refrigerator with food.
- When you open the door, an item may fall out and cause personal injury or material damage.
• Do not use or place any substances sensitive to temperature such as inflammable sprays, inflammable objects, dry ice, medicine, or chemicals near the refrigerator. Do not keep volatile or inflammable objects or substances (benzene, thinner, propane gas, etc.) in the refrigerator.
- This refrigerator is for storing food only.
- This may result in fire or an explosion.
• Do not place or use electrical appliance inside the refrigerator/freezer, unless they are of a type recommended by the manufacturer.
• Do not touch the inside walls of the freezer or products stored in the freezer with wet hands.
- This may cause frostbite.
• Do not damage the refrigerant circuit.
• Fill water tank, ice tray, water cubes only with potable water.
• Do not spray volatile material such as insecticide onto the surface of the appliance.
- As well as being harmful to humans, it may also result in electric shock, fire or problems with the product.
• If the appliance is flooded, please contact your nearest service centre.
- Failing to do so may result in electric shock or fire.

• This product is intended only for the storage of food in a domestic environment.
• Bottles should be stored tightly together so that they do not fall out.
• In the event of a gas leak (such as propane gas, LP gas, etc.), ventilate immediately without touching the power plug. Do not touch the appliance or power cord.
- Do not use a ventilating fan.
- A spark may result in an explosion or fire.

• Do not attempt to repair, disassemble, or modify the appliance yourself.
- Do not use any fuse(such as cooper, steel wire, etc.) other than the standard fuse.
- When repairing or reinstalling the appliance is required, contact your nearest service center.
- Failing to do so may result in electric shock, fire, problems with the product, or injury.

• If you want to change the interior lamps of the refrigerator, please contact your service agents.

• If the appliance generates a strange noise, a burning or smell or smoke, unplug the power plug immediately and contact your nearest service center.
- Failing to do so may result in electric or fire hazards. Keep ventilation opening in the appliance enclosure or mounting structure clear of obstruction.
• If any foreign substance such as water has entered the appliance, unplug the power plug and contact your nearest service center.
- Failing to do so may result in electric shock or fire.

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CAUTION SIGNS FOR USING

• If the refrigerator is disconnected from the power supply, you should wait for at least five minutes before plugging it back in.
• Unplug the power plug during a thunder/ lightning storm.
• If you will be away for more than three weeks or the refrigerator will not be used for a long period of time, you must empty and clean the refrigerator and pull out the power plug.
Wipe excess moisture from the inside and leave the doors open.
- Otherwise, odor and mold may develop.
- Deterioration in the insulation may cause fire.
• To get best performance of product,
- Do not place foods too closely in front of the vents at the rear of the appliance as it can obstruct free air circulation in the refrigerator compartment.
- Wrap the food up properly or place it in airtight containers before put it into the refrigerator.
• Do not re-freezer frozen foods that have thawed completely.
• Please observe maximum storage times and expiry dates of frozen goods.
• Fill water tank, ice tray, water cubes only with potable water.
• Contains fluorinated greenhouse gases covered by the kyoto protocol.
• Hermetically sealed system.
• Do not vent gases into the atmosphere.
• Refrigerant type:R-134a Quantity: 0.13kg Global Warming Potential(GWP) = 1300
• Use only the ice maker provided with the refrigerator.
• Wipe excess moisture from the inside and leave the doors open.
- Otherwise, odor and mold may develop.
• Allow the appliance to stand for 2hours after installation.
• To get Best performance of product,
- Do not place foods too closely in front of the vents at the rear of the appliance as it can obstruct free air circulation in the freezer compartment.
- Wrap the food up properly or place it in airtight containers before put it into the fridge or freezer.
- Do not put any newly introduced food for freezing near to already food.
• Do not place glass or bottles or carbonated beverages into the freezer.
- The container may freeze and break, and this may result in injury.
• In the event of a power failure, call the local office of your Electricity Company and ask how long it is going to last.
- Most power failures that are corrected in an hour or two will not affect your refrigerator temperatures.
However, you should minimize the number of door openings while the power is off.
But Should the power failure last more than 24hours, remove all frozen food.
• The appliance might not operate consistently (possibility of defrosting of co tents or temperature becoming too warm in the frozen food compartment) when sited for an extended period of time below the cold end of the range of temperatures for which the refrigerating appliance is designed.
• Temperature rising during the defrost can comply with ISO requirement.
But If you want to prevent an undue rise in the temperature of the frozen food while defrosting the appliance, please wrap the frozen food in several layers of newspaper.
• Do not insert your hands into the bottom area under the appliance.
- Any sharp edges may cause personal injury.
• Do not let children step on drawer's cover.
- It may break and cause slip hazard.
• Do not use a hair dryer to dry the inside of the refrigerator.
Do not place a lighted candle in the refrigerator for removing bad odors.
- This may result in electric shock or fire.
• Do not apply strong shock or excessive force onto the surface of glass.
- Broken glass may result in a personal injury and/or property damage.

• Remove all foreign substances such as dust or water from the power plug terminals and contact points using a dry cloth on a regular basis.
- Unplug the power plug and clean it with a dry cloth.
- Failing to do so may result in electric shock or fire.

WARNING SEVERE WARNING SIGNS FOR DISPOSAL

• Ensure that none of the pipes on the back of the appliance are damaged prior to disposal.

- Leave the shelves in place so that children may not easily climb inside.
  Cyclopentane used as a insulation blowing gas. The gases in insulation material require special disposal procedure.
  Please contact your local authorities in regard to the environmentally safe disposal of this product.
  Ensure that none of the pipes on the back of the appliances are damaged prior to disposal. The pipes shall be broke in the open space.
- When disposing of this product or other refrigerators, remove the door/door seals, door latch so that small children or animals cannot become trapped inside.
- Please dispose of the packaging material for this product in an environmentally friendly manner.

SAVING ENERGY TIPS

- Install the appliance in a cool, dry room with adequate ventilation.
  Ensure that it is not exposed to direct sunlight and never put it near a direct source of heat (radiator, for example).
- Never block any vents or grilles on the appliance.
- Allow warm food to cool down before placing it in the appliance.
- Put frozen food in the refrigerator to thaw.
  You can then use the low temperatures of the frozen products to cool food in the refrigerator.
- Do not keep the door of the appliance open for too long when putting food in or taking food out.
  The shorter time for which the door is open, the less ice will form in the freezer.
- Clean the rear of the refrigerator regularly.
  Dust increases energy consumption.
- Do not set temperature colder than necessary.
- Ensure sufficient air exhaust at the refrigerator base and at the back wall of the refrigerator.
  Do not cover air vent openings.
- Allow clearance to the right, left, back and top when installing.
  This will help reduce power consumption and keep your energy bills lower.

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GETTING READY TO INSTALL THE REFRIGERATOR

Congratulations on your purchase of this Samsung Refrigerator.
We hope you enjoy stateof-the-art features and efficiencies that this new appliance offers.

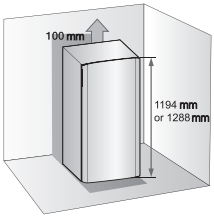
- This refrigerator must be properly installed and located in accordance with the manual before it is used.
- Use this appliance only for its intended purpose as described in this instruction manual.
- We strongly recommend that any servicing be performed by a qualified individual.
- Please dispose of the packaging material for this product in an environmentally friendly manner.

Selecting the best location for the Refrigerator

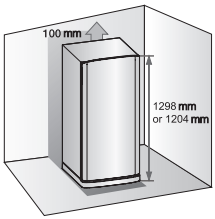
- A location without direct exposure to sunlight.
- A location with flat floor surface.
- A location with enough space for the refrigerator door to open easily.
- Allow sufficient space for air circulation of the internal cooling system.
  If the refrigerator does not have enough space, the internal cooling system may not work properly.

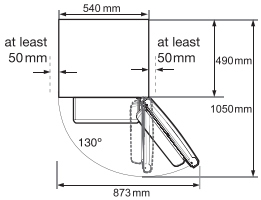
* The figure above shows a RA21PT.

No Stand Table Option Model



Stand Table Option Model



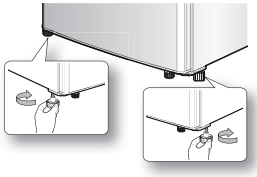


- Height of the product may be different depending on the models.
- Allow clearance to the right, left, back and top when installing.
  This will help reduce power consumption and keep your energy bills lower.
- Do not install the refrigerator in a place with the temperature lower than 10 °C.
- When you move the refrigerator, unplug and clearly arrange the power cord.
  Also secure the glass shelf and the doors with a tape.

CAUTION

Pull the unit straight out when installing, servicing or cleaning behind the refrigerator and push it straight back after work is complete.
Make sure your floor can support fully loaded refrigerator.

LEVELLING THE REFRIGERATOR



If the front of the appliance is slightly higher than the rear, the door can be opened and closed more easily. Turn the adjusting legs clockwise to raise and counter-clockwise to lower the height.

Case 1) The appliance tilts down to the left.

- Turn the left adjusting leg in the direction of the arrow until the appliance is level.

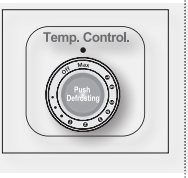
Case 2) The appliance tilts down to the right.

- Turn the right adjusting leg in the direction of the arrow until the appliance is level.

ADJUSTING THE TEMPERATURE CONTROL

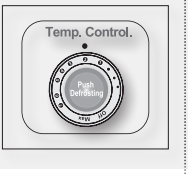
Coldest

Turn the temperature control to **MAX** if you want to store a lot of food or the power cool is in need.



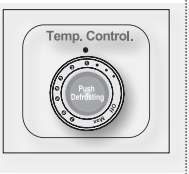
Normal

If you want to keep refrigerating or freezing to normal mode, turn the temperature control at level 2.

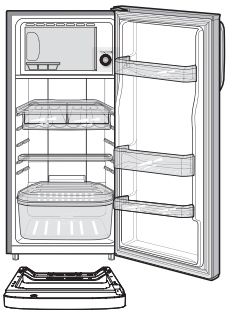


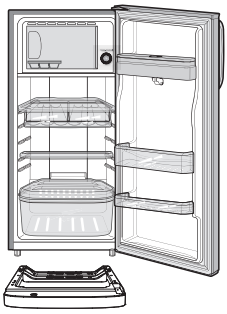
Cold

If you want to store only a small amount of food in the refrigerator or freezer, turn the temperature control at level 1.



- If the temperature where the refrigerator is placed is lower than 5 °C, set the temperature control at level 1.
  Because the temperature of the refrigerator is affected by the temperature around the refrigerator and it will be lower than the set value.
- Apart from knob settings mentioned above, if you desire to increase or reduce the cooling, turn the knob clockwise or anticlockwise to the degrees you want.
- If you need to freeze large amount of food stuff, set the temperature of freezer compartment to MAX at least 24 hours before.
- When you use this function the energy consumption of the refrigerator will increase. Remember to turn it off when you don't need it and return the freezer to your original temperature setting.
  If you need to freeze large amount of food stuff, set the temperature of freezer compartment as the coldest temperature before you set to **MAX**.





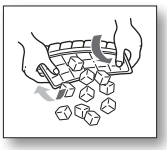
Some parts in the picture may differ from your refrigerator, depend on model and option.
To get the best energy efficiency of this product, please leave all selves, drawers and baskets on their original position like as above illustration.

MAKING ICE

1. Fill the ice tray with water of about 80% of its capacity, or of its "water level" indicator.
2. Carefully place the ice tray on the freezer shelf otherwise the splashed water will be frozen and cause the ice tray stuck hard.
3. For making quick ice cubes, the temperature control button must be set to " MAX".

4. The water will become the ice cubes within 3-4 hours. Please remove the ice tray by pulling it out. Never use any kind of instrument. This may cause damage on the freezer.

To take the ice cubes from the ice cube tray, you should gently twist the ice tray (As shown), Do not bend it over.



Freezing time

It is recommended that you wait about 1~2 hours after setting MAX of temperature control for the ice cubes to form.
After unplug the appliance , wait for about 5 minutes before restarting.

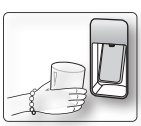
CAUTION

Danger of explosion

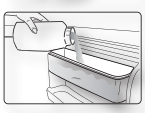
- The coldest parts of the refrigerator is the rear panel.
  This is the best place to store delicate foodstuffs.
- Glass bottles containing liquids should never be stored in the freezer as the glass can shatter when the contents freeze.

USING THE WATER DISPENSER (MODEL WITH WATER DISPENSER ONLY)

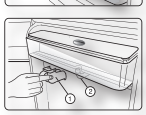
If drinking water is needed, push the water dispenser lever with a glass.

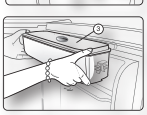


To refill the water thank, remove the cap and fill it up with drinking water, then keep the cap into place.



When you want to clean water tank, let water out of the tank.
Remove ① away from ② then remove the water tank from the locking device by lifting it up.
Remove the lid ③ by pulling outward straightly.
Wash it with detergent and warm water, then wash with clean water.
After drying it with a clean cloth, place it correctly.





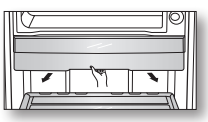
STEPS TO OPERATE THE WATER DISPENSER

1. The water tank should be cleaned up firstly before use, to remove any dust or oder.
2. The water tank should be filled up with pure drinking water. The water dispenser devices might be damaged by the syrup, soft drink or hot water.
3. If the appliance has just been installed, please let 3 or 4 glasses of water away to remove the dust and plastic smell of the water tank.
4. To prevent soaking on the floor, you should softly push the water dispenser lever with a glass, then pull it backward slowly and wait until the last drop of water.
5. The accessories should be removed for cleaning up at least once or twice a month.

REMOVING THE INTERIOR PARTS

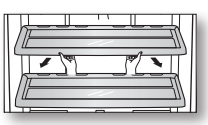
Refrigerator Shelves

Pull the shelves towards you until it meets the stopper.
Tilt the front of the shelves up and continue pulling the shelves out.



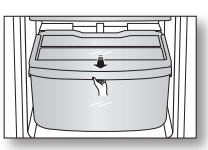
Chiller Compartment

Pull the chiller compartment towards you until it meets the stopper.
Tilt the front upward and continue pulling the compartment out.



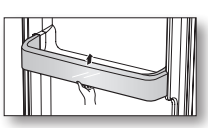
Vegetable Bin and Cover

Pull the vegetable bin towards you and out of the refrigerator.
Lift the cover up and pull it out of the refrigerator.



Bottle Storage Guards

Lift straight upwards to release the tabs, then pull it out of the refrigerator.
(This bottle storage guard is not adjustable; it fits in only one position.)



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CLEANING THE REFRIGERATOR

Caring for your Samsung Refrigerator prolongs the life of the product and helps keep it from odor and germs.

CAUTION

Make sure to unplug the power cord before cleaning the refrigerator.
Do not spray the refrigerator with water while it is plugged in, as it may cause an electric shock.
Do not clean the refrigerator with benzene, thinner or car detergent as there is a risk of fire.

Cleaning the Interior

Clean the inside walls and interior parts with a mild detergent and then wipe it with dry soft cloth.
You may remove the drawers and shelves for a more thorough cleaning. Make sure to dry them before putting them back into place.

Cleaning the Exterior

Wipe the control panel and display panel with a clean, soft cloth.
Spray water onto the cleaning cloth instead of spraying directly on the surface of the refrigerator to ensure even distribution of moisture on the surface.
Doors, handles and cabinet surfaces should be cleaned with a mild detergent and then wiped with a dry soft cloth.
To keep your appliance looking its best, the exterior should be polished once or twice a year.

WARNING

Do not use Benzene, Thinner or Clorox™ for cleaning.
They may damage the surface of the appliance and can create a risk of fire.

Cleaning the Rubber door seals

If the rubber door seals are dirty, doors may not close properly and the refrigerator will not operate efficiently.
Keep the door seals free of grit or grime by cleaning the doors with a mild detergent and damp cloth.
Wipe dry with a clean, soft cloth.

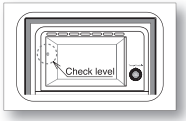
CAUTION

- Do not spray the refrigerator with water while it is plugged in, as it may cause an electric shock. Do not clean the refrigerator with benzene, thinner or car detergent for risk of fire.
- You may remove the rubber door seal from the door to clean it. Make sure that you put the rubber door seal back correctly or the refrigerator will not operate efficiently.

DEFROSTIING

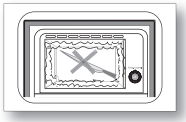
Defrosting should be often operated, as the thick frost (1/4 inch) may cause low efficiency of the refrigerator.

1. If the thick frost is over the level, you should push the defrosting button.



2. As soon as the "Push Defrosting" is pushed, the frost is gradually defrosting.

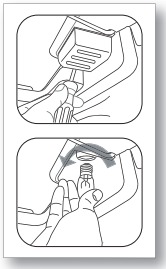
3. Do not use a knife or other metal instruments to remove ice/frost.
It may cause damage on the freezer.



4. After defrosting, the button will pop up and the refrigerator operates properly.

REPLACING THE LAMP

1. Unplug the power cord from the socket.
2. Remove Tray partition and shelf.
3. Unscrew by plus-type driver then take out lamp cover. (optional model only)
4. Turn the lamp counter clockwise.



5. Replace with new lamp same specification as original one.

WARNING

Disconnect power supply before replacing the lamp.

troubleshooting

PROBLEM	SOLUTION
The appliance is not operating at all or the temperature is too high or low.	Check the refrigerator for the following: • Check if the power plug is correctly connected. • Check if the power fuse is blown. • Is the temperature control correctly set? • Does sun shine on the appliance or are there any heat sources nearby? • Is the back of the appliance too close to the wall? • Do not store the hot food till it comes to room temperature. • Did you leave the refrigerator open for a long time? If a problem occurs, contact your service agents.
The food in the refrigerator is frozen.	• Is the temperature controlset to the "4" temperature? • Is the surrounding temperature too low?
There are unusual noises.	• Check if the appliance is installed on a stable and even floor. • Is the back of the appliance too close to the wall? • Have any foreign objects fallen behind or under the appliance? • Is the noise coming from the compressor in the appliance? • A ticking sound occurs when the various accessories contract or expand.
The front corners and sides of the appliance are warm and condensation starts to form.	• Heat-proof pipes are installed in the front corners of the appliance to prevent condensation from forming. When the surrounding temperature rises, this may not always be effective. However, this is not abnormal. • In very humid weather, condensation may form on the outer surface of the appliance when the moisture in the air comes into contact with the cool surface of the appliance.
You can hear a liquid bubbling in the appliance.	• This is the refrigerant, which cools the inside of the appliance.
There is a bad smell inside the appliance.	• Is there any spoiled food inside of the refrigerator? • Make sure that strong smelling food (for example, fish) is wrapped so that it is airtight. • Clean out your refrigerator periodically and throw away any spoiled or suspect food.
There is a layer of frost on the appliances walls.	• Are the air outlet vents blocked by food stored inside the refrigerator? • Space the food out as much as possible to improve ventilation. • Is the door fully closed?
Condensation forms on the inside wall of the appliance and around vegetables.	• Food with a high water content is stored uncovered with a high humidity level or the door has been left open for a long time. • Store the food with a cover or in sealed containers.

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Ambient Room Temperature Limits

This refrigerator is designed to operate in ambient temperatures specified by its temperature class marked on the rating plate.

Class	Symbol	Ambient Temperature range (°C)
Extended Temperate	SN	+10 to +32
Temperate	N	+16 to +32
Subtropical	ST	+16 to +38
Tropical	T	+16 to +43

Internal temperatures may be affected by such factors as the location of the refrigerator, ambient temperature and the frequency with which you open the door. Adjust the temperature as required to compensate for these factors.

English

Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)

(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

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